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PATENT
Attorney Docket No.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Andrzej Z. Sledziewski et al..

Application No.: 08/980,400

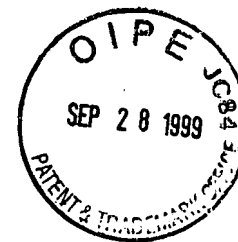
Filed: November 26, 1997

For: BIOLOGICALLY ACTIVE
DIMERIZED AND
MULTIMERIZED POLYPEPTIDE
FUSIONS (As Amended)

Examiner: C. Kaufman

Art Unit: 1646

FORMAL DRAWINGS TRANSMITTAL



Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to the Notice of Allowability dated June 24, 1999, Applicants submit 21 sheets of formal drawings to be made of record in the above-identified case.

Respectfully submitted,

Dated: 9/24/99

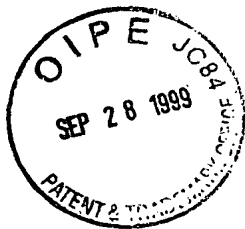
By: Jeffrey J. King

Reg. No. 38,515

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, CA 94111
(206) 467-9600
SE 5001074 v1

1 GGCCCTCAGCCCTGTGCCAGCACGAGCCTGTGCTGCCCTGCCCAACGAGACAGCCAGCCCAGG 69
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346 GCAAGGACACCATGCGGCTTCCGGGTGCGATGCCAGCTCTGGCCCTCAAAGCGGAGCTGTGTGCTGT 414
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Fig. 1A



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Fig. 1A, Sheet 1 of 21

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829 TGACACTGCACGAGAAAGGGACGTTGCACTGCCTGTCCCCTATGATCACCAACGTGGCTTTTCTG 897
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 G E V G T L Q F A E L H R S R T L Q V V F E A 342

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Fig. 1B



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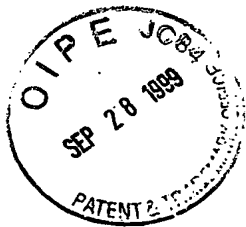
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 2761 ACCTCGTGGGCTTACGCTACCAGGTGGCCAATGGCATGGAGTTTCTGGCCTCCAAGAAGTCCGTCAC 2829
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Fig. 1D



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 1657 TCCGCTGTCTGTCGCGGGGCATGCCCCAGCCGGAACATCATCTGGTCTGCCTGCAGAGACCTCAAAAGGT 1725
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 1864 CACTGTGGTGGCTGCACGCTGCCGAACGCTGTGGGCCAGGACACGACGAGGAGGTTCATCGTGGTCCAC 1932
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Fig. 1C

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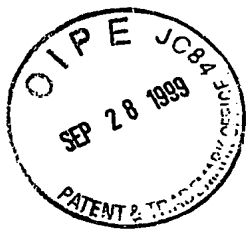
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 3520 CCTCAACCATCTCCTGTGACAGCCCCCTGGAGCCCCCAGGACGAACCAAGAGCCAGAGCCCCAGCTTGAGC 3588
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Fig. 1E



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Fig. 1F



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Fig. 1G



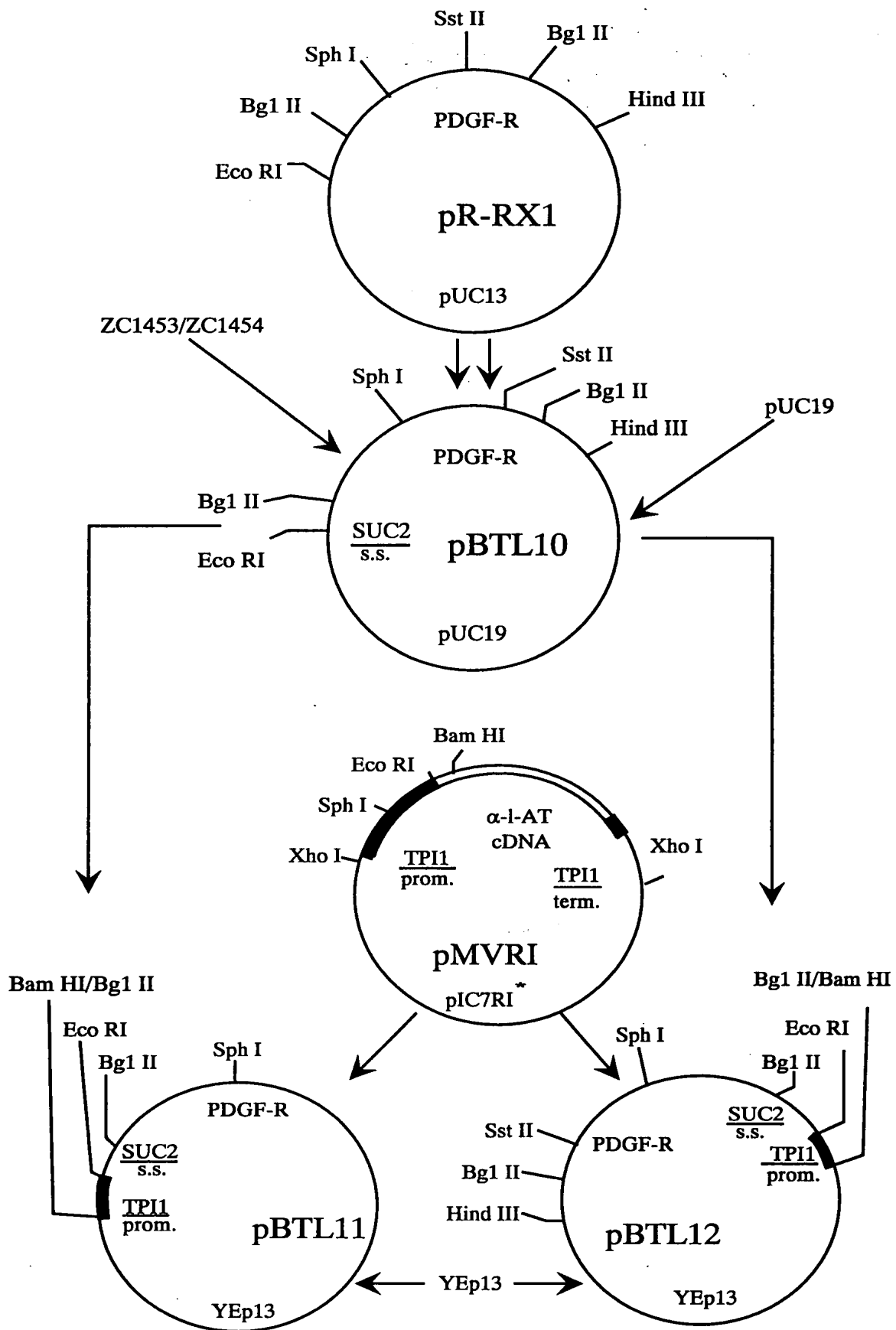
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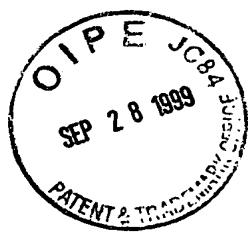
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Figure 2





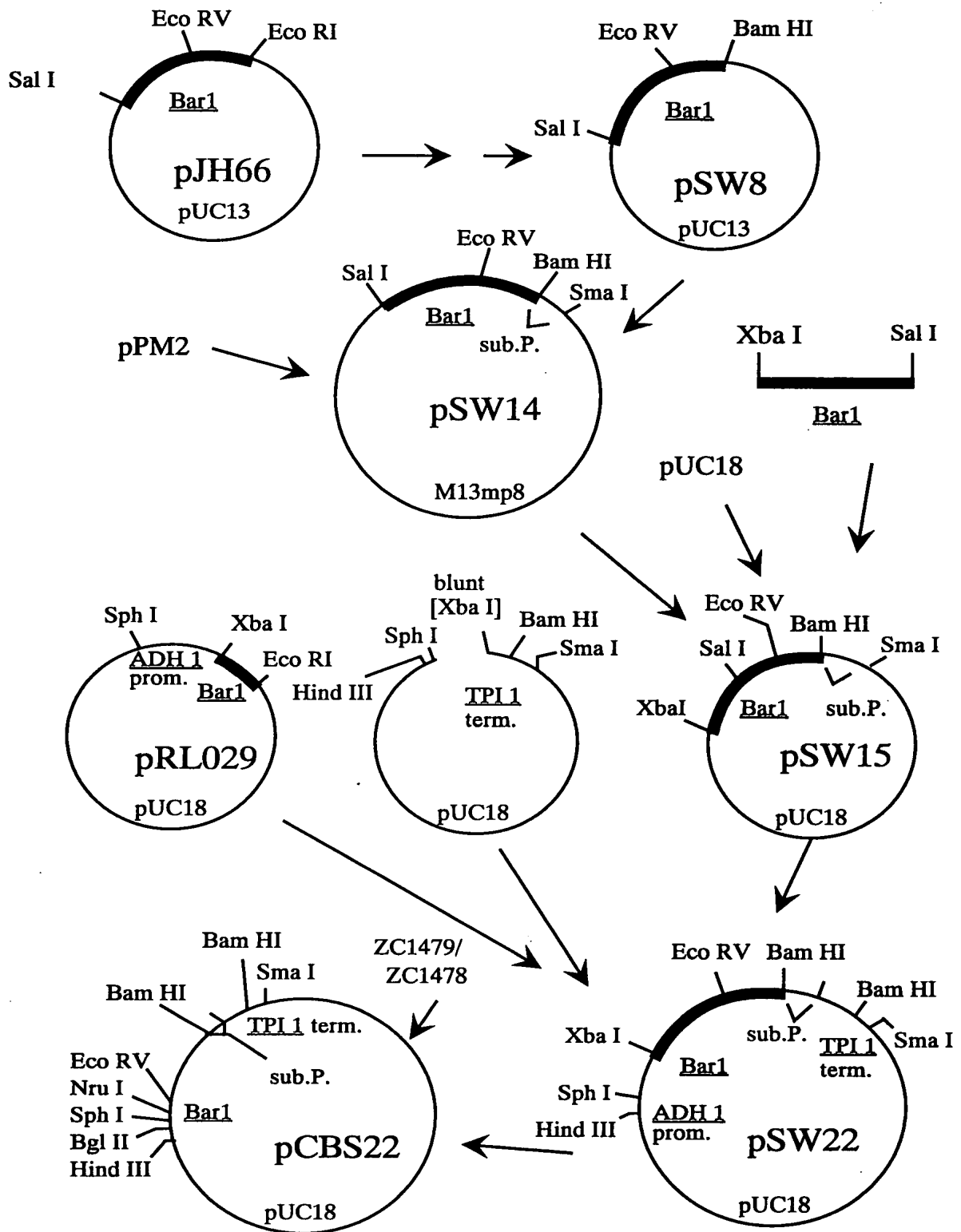
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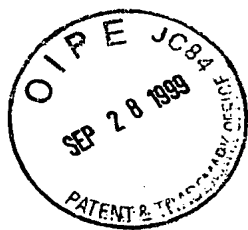
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Figure 3





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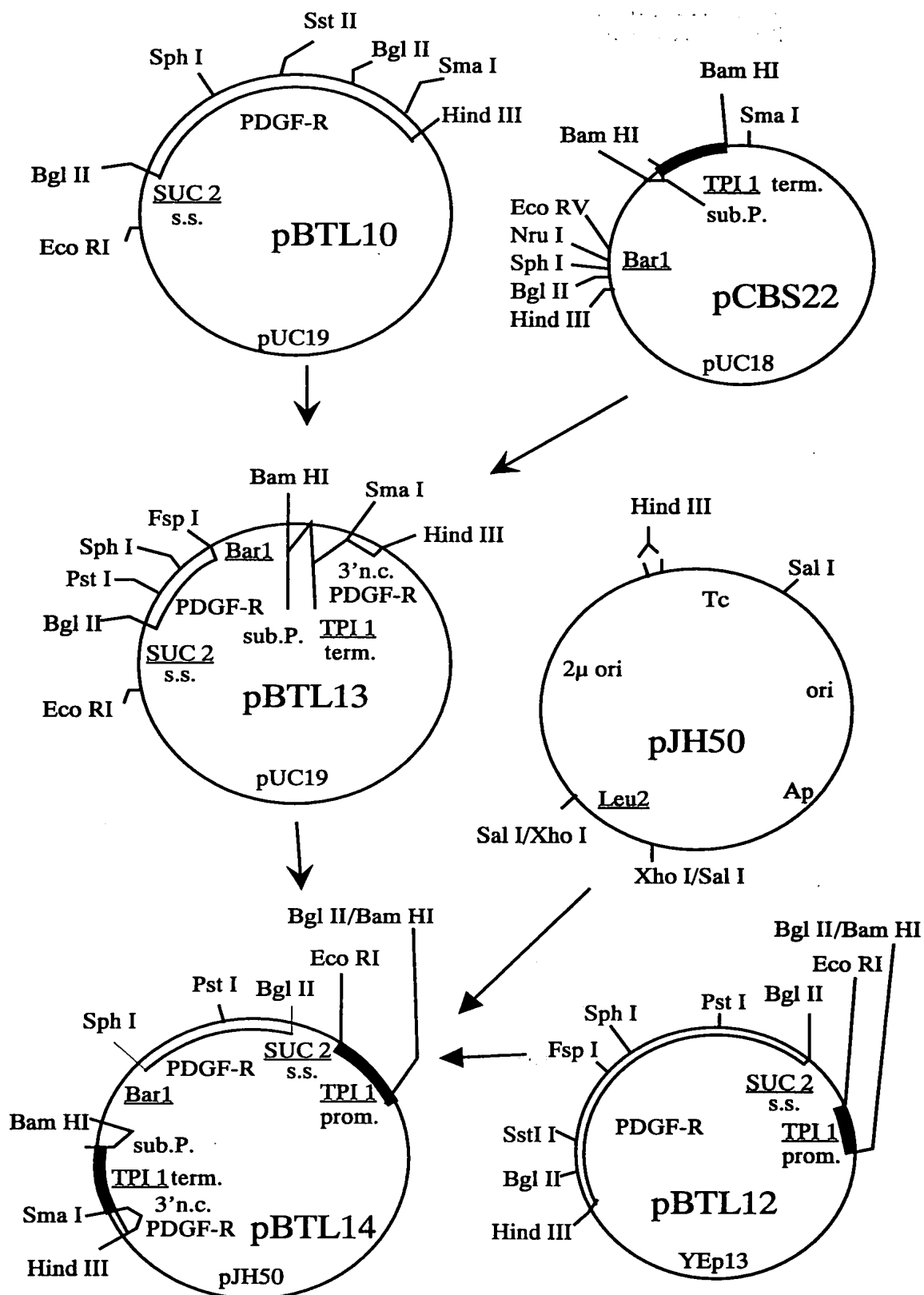
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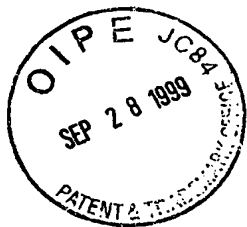
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Figure 4





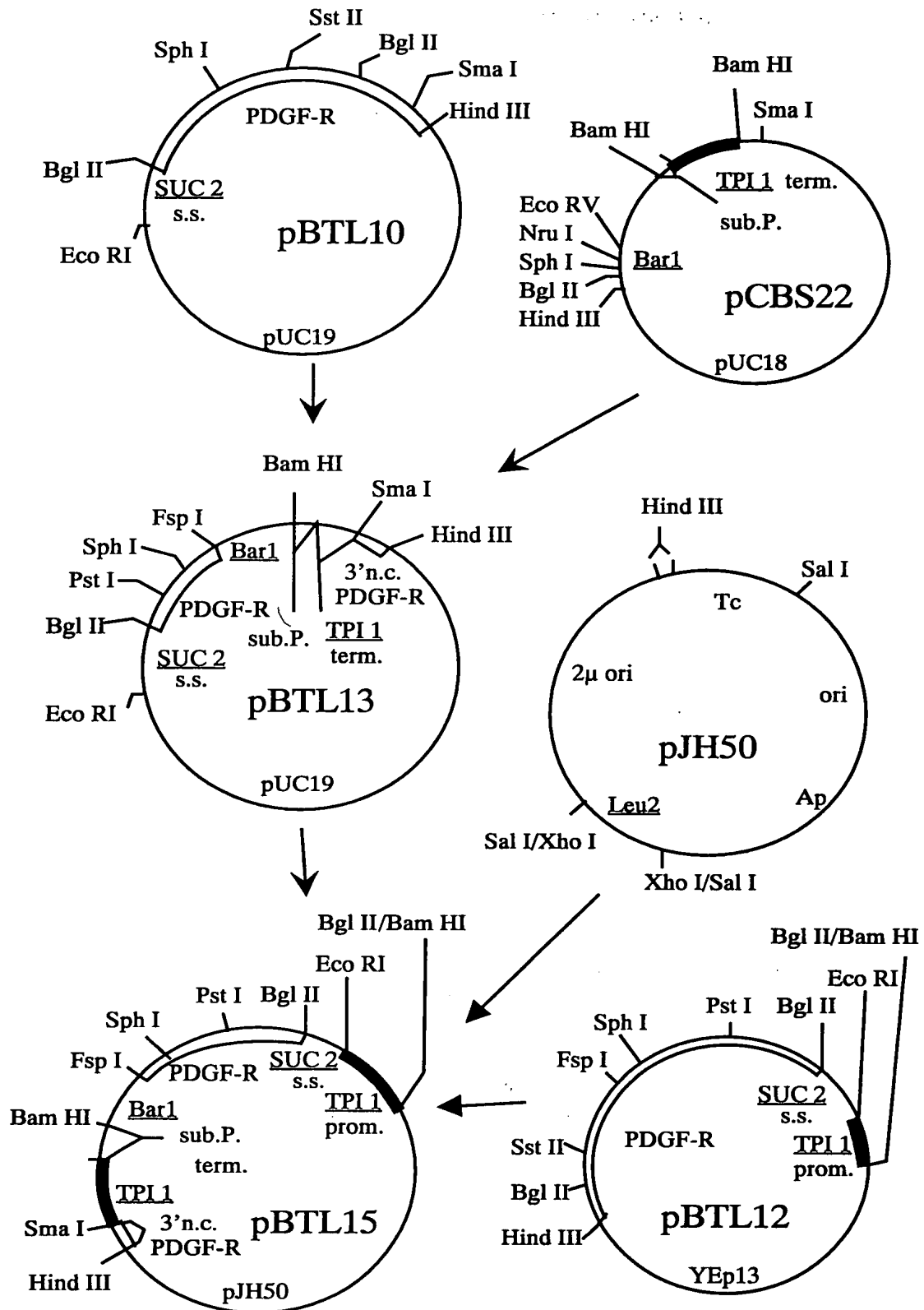
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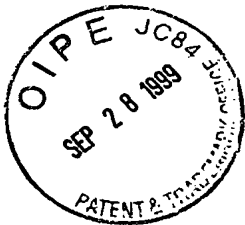
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Figure 5





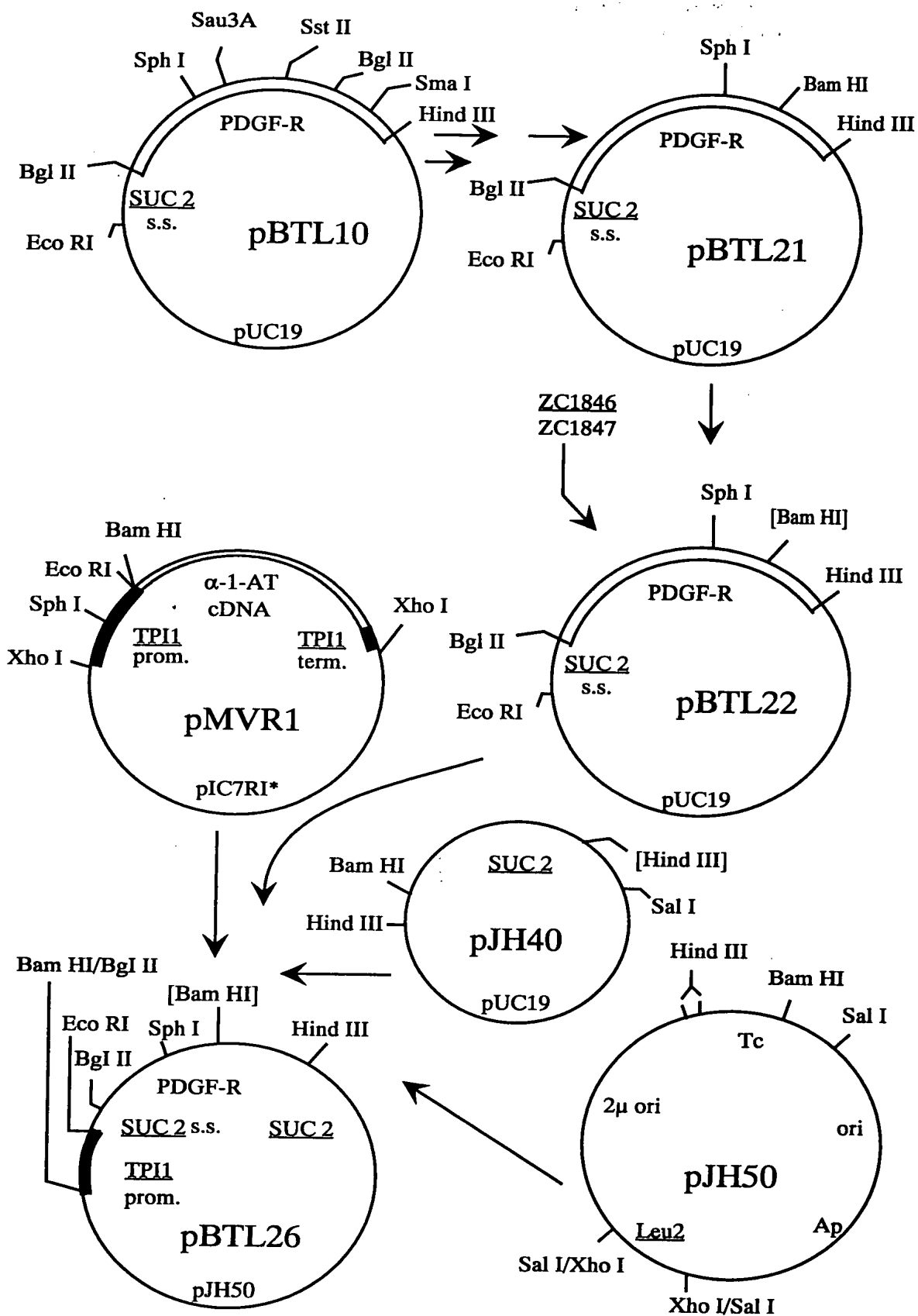
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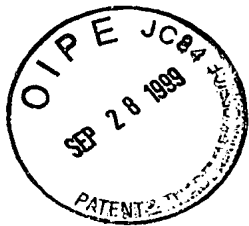
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Figure 6





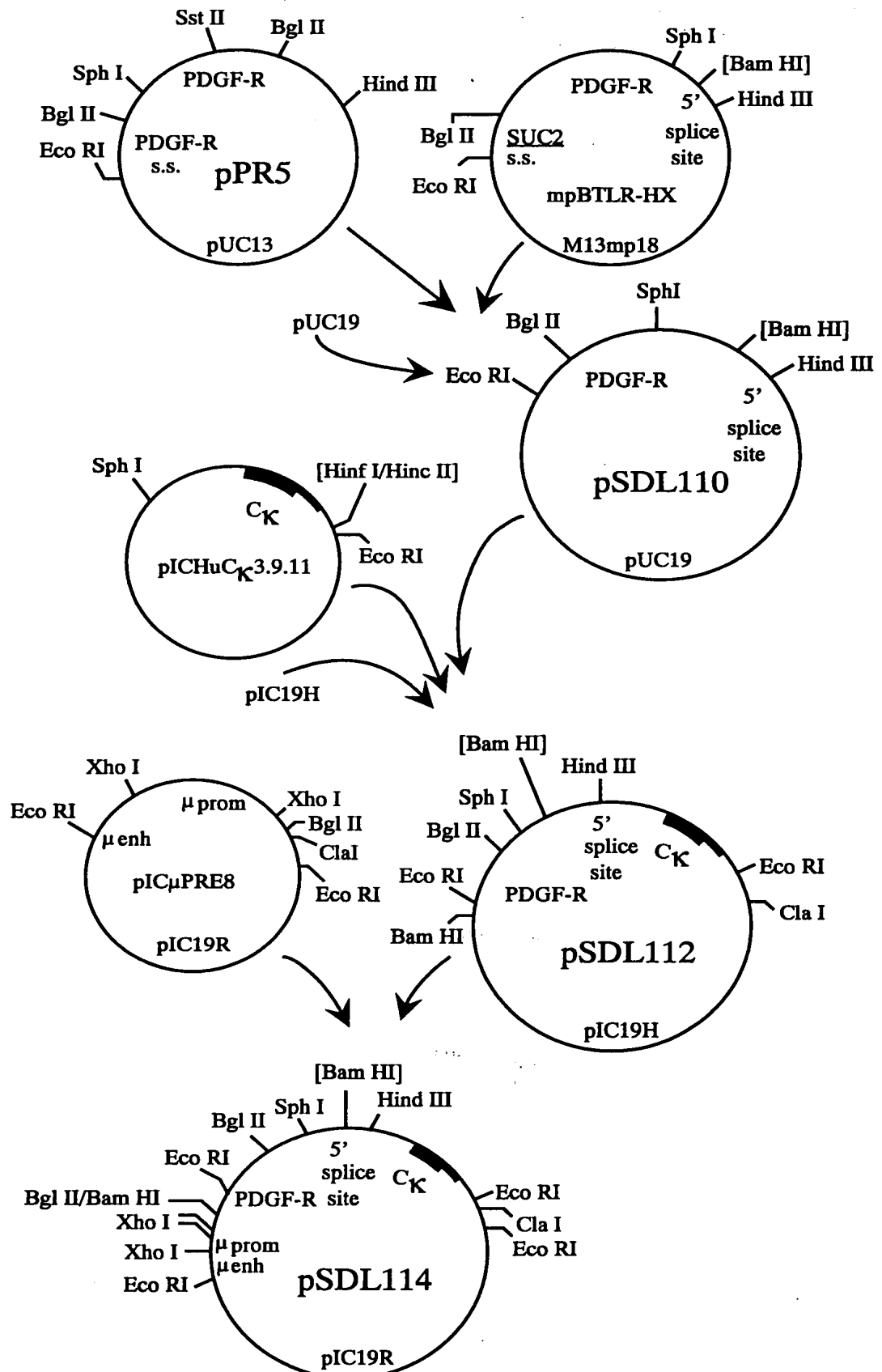
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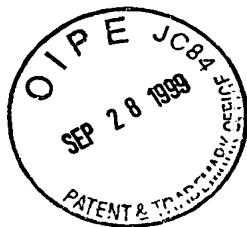
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Figure 7





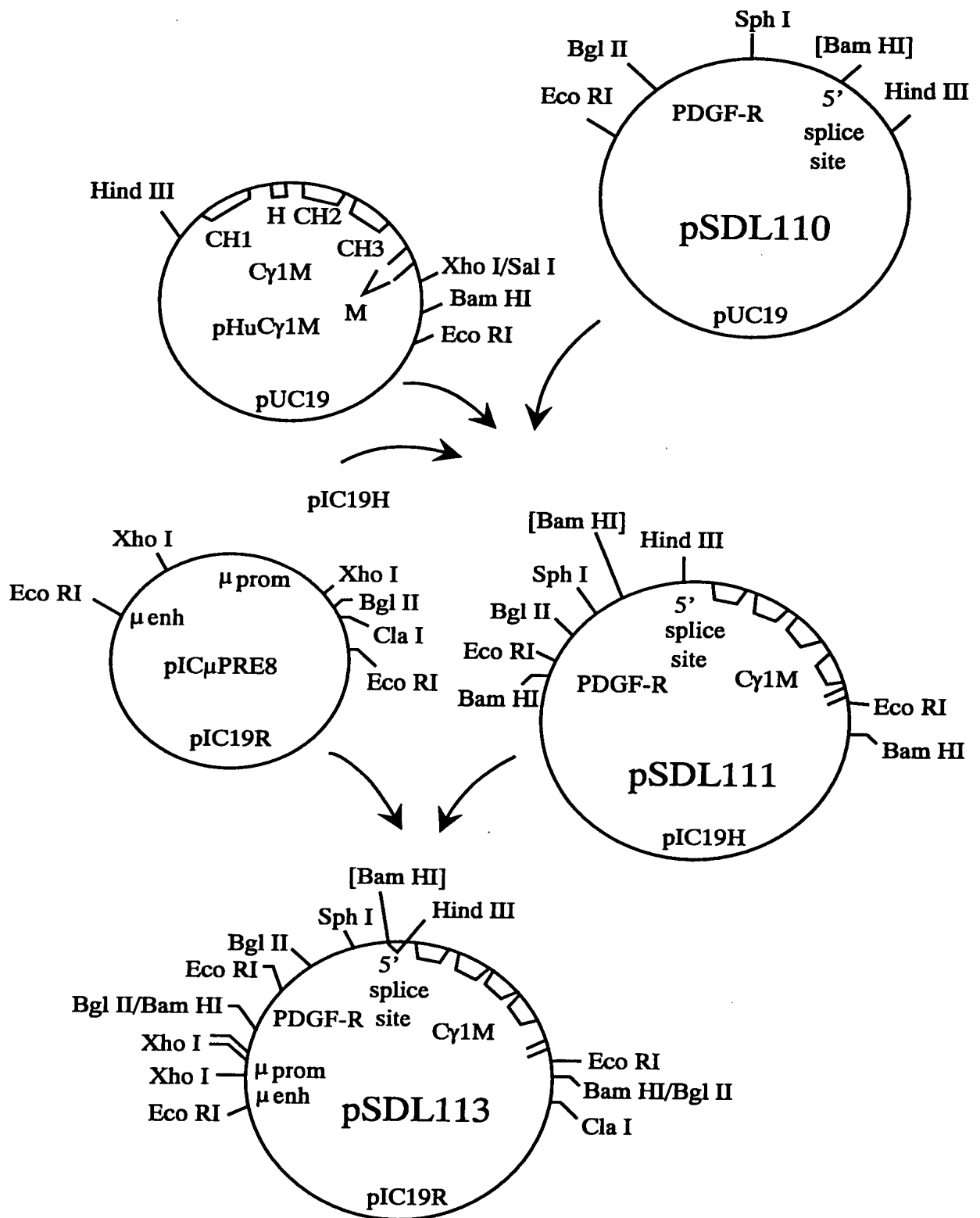
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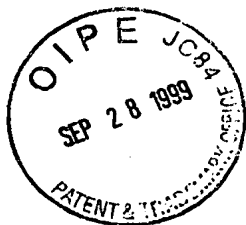
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Figure 8

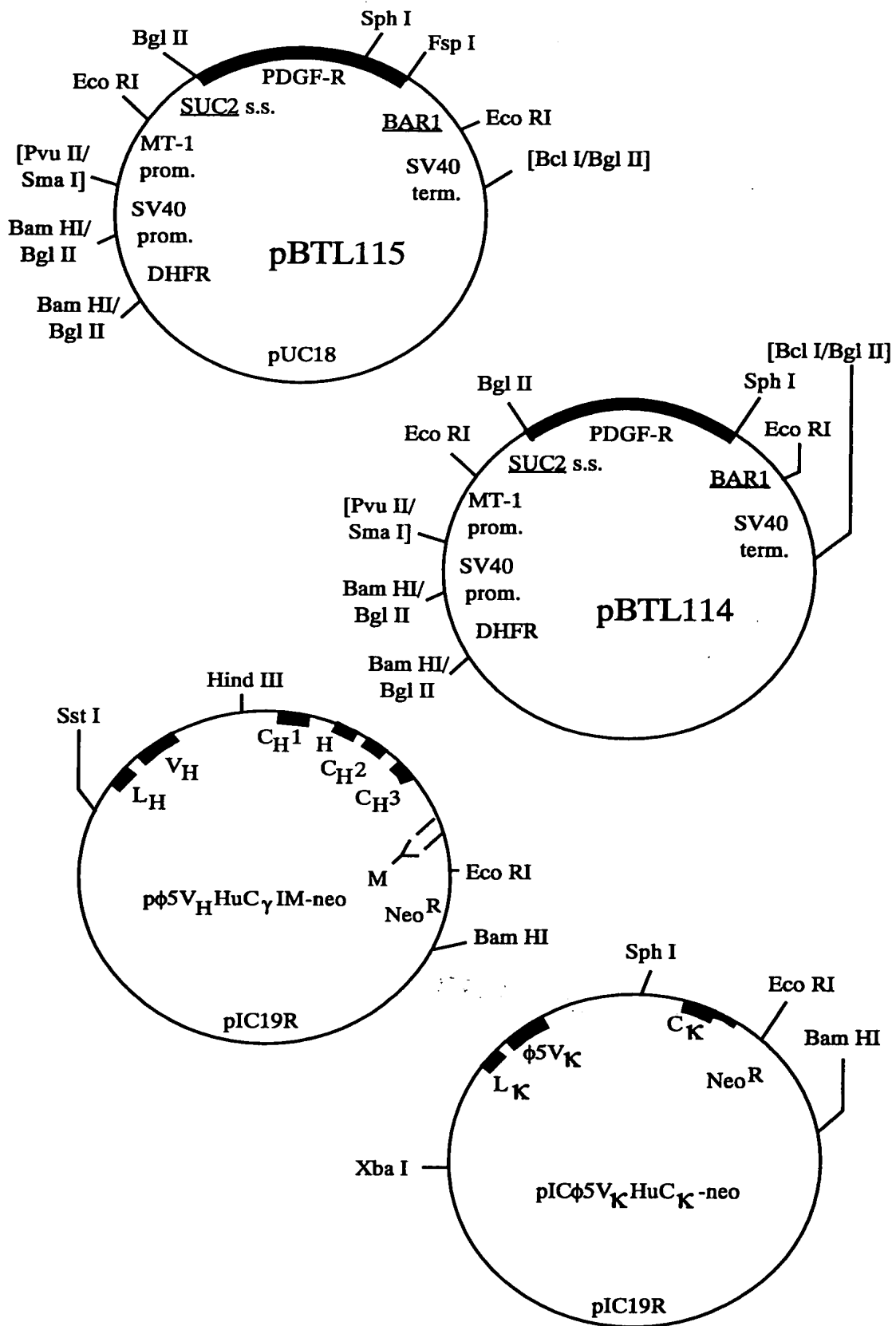




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Figure 9

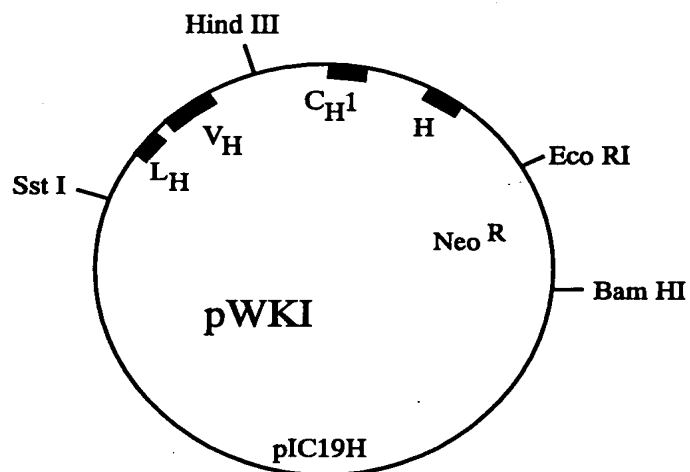
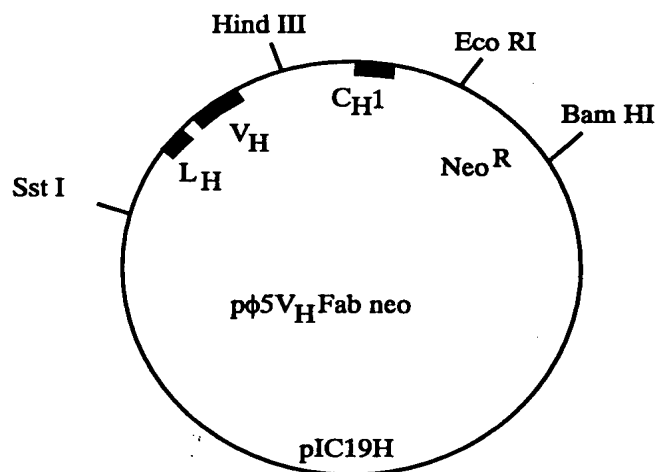
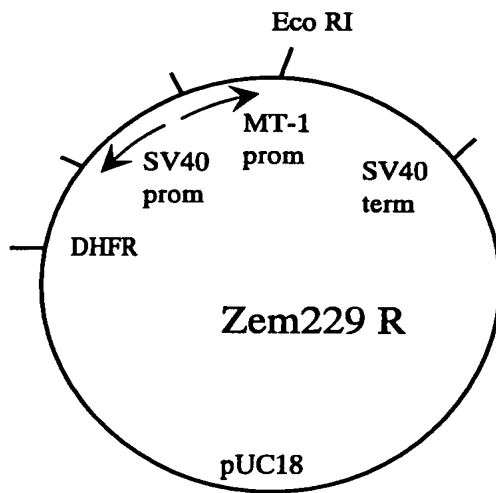




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Figure 10





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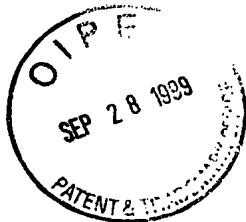
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Figure 11A

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M
1
208 GGGACTTCCCATCCGGCGTTCCTGGTCTTAGGCTGTCTTCTCACAGGGCTGAGCCTAATCCTCTGCCAG
G T S H P A F L V L G C L L T G L S L I L C Q
277 CTTTCATTACCCTCTATCCTTCCAAATGAAAATGAAAAGGTTGTGCAGCTGAATTCATCCTTTTCTCTG
L S L P S I L P N E N E K V V Q L N S S F S L
346 AGATGCTTTGGGGAGAGTGAAGTGAGCTGGCAGTACCCCATGTCTGAAGAAGAGAGCTCCGATGTGGAA
R C F G E S E V S W Q Y P M S E E E S S D V E
415 ATCAGAAATGAAGAAAACAACAGCGGCCTTTTTGTGACGGTCTTGGAAGTGAGCAGTGCCTCGGCGGCC
I R N E E N N S G L F V T V L E V S S A S A A
484 CACACAGGGTTGTACACTTGCTATTACAACCACACTCAGACAGAAGAGAATGAGCTTGAAGGCAGGCAC
H T G L Y T C Y Y N H T Q T E E N E L E G R H
553 ATTTACATCTATGTGCCAGACCCAGATGTAGCCTTTGTACCTCTAGGAATGACGGATTATTTAGTCATC
I Y I Y V P D P D V A F V P L G M T D Y L V I
622 GTGGAGGATGATGATTCTGCCATTATACCTTGTGCGACAACCTGATCCCGAGACTCCTGTAACCTTACAC
V E D D D S A I I P C R T T D P E T P V T L H
691 AACAGTGAGGGGGTGGTACCTGCCTCCTACGACAGCAGACAGGGCTTTAATGGGACCTTCACTGTAGGG
N S E G V V P A S Y D S R Q G F N G T F T V G
760 CCCTATATCTGTGAGGCCACCGTCAAAGGAAAGAAGTTCCAGACCATCCCATTTAATGTTTATGCTTTA
P Y I C E A T V K G K K F Q T I P F N V Y A L
829 AAAGCAACATCAGAGCTGGATCTAGAAATGGAAGCTCTTAAACCGTGTATAAGTCAGGGGAAACGATT
K A T S E L D L E M E A L K T V Y K S G E T I
898 GTGGTCACCTGTGCTGTTTTTAACAATGAGGTGGTTGACCTTCAATGGACTTACCCTGGAGAAGTGAAA
V V T C A V F N N E V V D L Q W T Y P G E V K

• • • • •



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Figure 11B

967 GGCAAAGGCATCACAATACTGGAAGAAATCAAAGTCCCATCCATCAAATTGGTGTACACTTTGACGGTC
G K G I T I L E E I K V P S I K L V Y T L T V

1036 CCCGAGGCCACGGTGAAAGACAGTGGAGATTACGAATGTGCTGCCCGCCAGGCTACCAGGGAGGTCAAA
P E A T V K D S G D Y E C A A R Q A T R E V K

1105 GAAATGAAGAAAGTCACTATTTCTGTCCATGAGAAAGGTTTCATTGAAATCAAACCCACCTTCAGCCAG
E M K K V T I S V H E K G F I E I K P T F S Q

1174 TTGGAAGCTGTCAACCTGCATGAAGTCAAACATTTTGTGTAGAGGTGCGGGCCTACCCACCTCCCAGG
L E A V N L H E V K H F V V E V R A Y P P P R

1243 ATATCCTGGCTGAAAAACAATCTGACTCTGATTGAAAATCTCACTGAGATCACCACTGATGTGGAAAAG
I S W L K N N L T L I E N L T E I T T D V E K

1312 ATTCAGGAAATAAGGTATCGAAGCAAATTAAGCTGATCCGTGCTAAGGAAGAAGACAGTGGCCATTAT
I Q E I R Y R S K L K L I R A K E E D S G H Y

1381 ACTATTGTAGCTCAAAATGAAGATGCTGTGAAGAGCTATACTTTTGAAGTGTAACTCAAGTTCCTTCA
T I V A Q N E D A V K S Y T F E L L T Q V P S

1450 TCCATTCTGGACTTGGTCGATGATCACCATGGCTCAACTGGGGGACAGACGGTGAGGTGCACAGCTGAA
S I L D L V D D H H G S T G G Q T V R C T A E

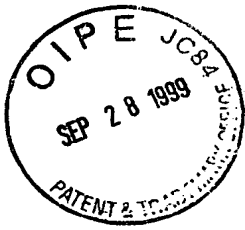
1519 GGCACGCCGCTTCCTGATATTGAGTGGATGATATGCAAAGATATTAAGAAATGTAATAATGAACTTCC
G T P L P D I E W M I C K D I K K C N N E T S

1588 TGGACTATTTTGGCCAACAATGTCTCAAACATCATCACGGAGATCCACTCCCGAGACAGGAGTACCGTG
W T I L A N N V S N I I T E I H S R D R S T V

1657 GAGGGCCGTGTGACTTTGCGCAAAGTGGAGGAGACCATCGCCGTGCGATGCCTGGCTAAGAATCTCCTT
E G R V T F A K V E E T I A V R C L A K N L L

1726 GGAGCTGAGAACCGAGAGCTGAAGCTGGTGGCTCCCACCCTGCGTTCTGAACTCACGGTGGCTGCTGCA
G A E N R E L K L V A P T L R S E L T V A A A

1795 GTCCTGGTGCTGTTGGTGATTGTGATCATCTCACTTATTGTCCTGGTTGTCATTGGAACAGAAACCG
V L V L L V I V I I S L I V L V V I W K Q K P



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Figure 11C

1864 AGGTATGAAATTCGCTGGAGGGTCATTGAATCAATCAGCCCGGATGGACATGAATATATTTATGTGGAC
R Y E I R W R V I E S I S P D G H E Y I Y V D

1933 CCGATGCAGCTGCCTTATGACTCAAGATGGGAGTTTCCAAGAGATGGACTAGTGCTTGGTCGGGTCTTG
P M Q L P Y D S R W E F P R D G L V L G R V L

2002 GGGTCTGGAGCGTTTGGGAAGGTGGTTGAAGGAACAGCCTATGGATTAAGCCGGTCCCAACCTGTCATG
G S G A F G K V V E G T A Y G L S R S Q P V M

2071 AAAGTTGCAGTGAAGATGCTAAAACCCACGGCCAGATCCAGTGAAAAACAAGCTCTCATGTCTGAACTG
K V A V K M L K P T A R S S E K Q A L M S E L

2140 AAGATAATGACTCACCTGGGGCCACATTTGAACATTGTAACTTGCTGGGAGCCTGCACCAAGTCAGGC
K I M T H L G P H L N I V N L L G A C T K S G

2209 CCCATTTACATCATCACAGAGTATTGCTTCTATGGAGATTTGGTCAACTATTTGCATAAGAATAGGGAT
P I Y I I T E Y C F Y G D L V N Y L H K N R D

2278 AGCTTCCTGAGCCACCACCCAGAGAAGCCAAAGAAAGAGCTGGATATCTTTGGATTGAACCCTGCTGAT
S F L S H H P E K P K K E L D I F G L N P A D

2347 GAAAGCACACGGAGCTATGTTATTTTATCTTTTGAAAACAATGGTGACTACATGGACATGAAGCAGGCT
E S T R S Y V I L S F E N N G D Y M D M K Q A

2416 GATACTACACAGTATGTCCCATGCTAGAAAAGGAAAGAGGTTTCTAAATATTCCGACATCCAGAGATCA
D T T Q Y V P M L E R K E V S K Y S D I Q R S

2485 CTCTATGATCGTCCAGCCTCATATAAGAAGAAATCTATGTTAGACTCAGAAGTCAAAAACCTCCTTTCA
L Y D R P A S Y K K K S M L D S E V K N L L S

2554 GATGATAACTCAGAAGGCCTTACTTTATTGGATTTGTTGAGCTTCACCTATCAAGTTGCCCCGAGGAATG
D D N S E G L T L L D L L S F T Y Q V A R G M

2623 GAGTTTTTGGCTTCAAAAAATTGTGTCCACCGTGATCTGGCTGCTCGCAACGTCCTCCTGGCACAAGGA
E F L A S K N C V H R D L A A R N V L L A Q G

2692 AAAATTGTGAAGATCTGTGACTTTGGCCTGGCCAGAGACATCATGCATGATTCGAACTATGTGTGCGAAA
K I V K I C D F G L A R D I M H D S N Y V S K

2761 GGCAGTACCTTTCTGCCCCGTGAAGTGGATGGCTCCTGAGAGCATCTTTGACAACCTCTACACCACACTG
G S T F L P V K W M A P E S I F D N L Y T T L



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Figure 11D

2830 AGTGATGTCTGGTCTTATGGCATTCTGCTCTGGGAGATCTTTTCCCTTGGTGGCACCCCTTACCCCGGC
S D V W S Y G I L L W E I F S L G G T P Y P G

2899 ATGATGGTGGATTCTACTTTCTACAATAAGATCAAGAGTGGGTACCGGATGGCCAAGCCTGACCACGCT
M M V D S T F Y N K I K S G Y R M A K P D H A

2968 ACCAGTGAAGTCTACGAGATCATGGTGAAATGCTGGAACAGTGAGCCGGAGAAGAGACCCTCCTTTTAC
T S E V Y E I M V K C W N S E P E K R P S F Y

3037 CACCTGAGTGAGATTGTGGAGAATCTGCTGCCTGGACAATATAAAAAGAGTTATGAAAAAATTCACCTG
H L S E I V E N L L P G Q Y K K S Y E K I H L

3106 GACTTCCTGAAGAGTGACCATCCTGCTGTGGCACGCATGCGTGTGGACTCAGACAATGCATACATTGGT
D F L K S D H P A V A R M R V D S D N A Y I G

3175 GTCACCTACAAAAACGAGGAAGACAAGCTGAAGGACTGGGAGGGTGGTCTGGATGAGCAGAGACTGAGC
V T Y K N E E D K L K D W E G G L D E Q R L S

3244 GCTGACAGTGGCTACATCATTCTGCTGACATTGACCCTGTCCCTGAGGAGGAGGACCTGGGCAAG
A D S G Y I I P L P D I D P V P E E E D L G K

3313 AGGAACAGACACAGCTCGCAGACCTCTGAAGAGAGTGCCATTGAGACGGGTTCCAGCAGTTCCACCTTC
R N R H S S Q T S E E S A I E T G S S S S T F

3382 ATCAAGAGAGAGGACGAGACCATTGAAGACATCGACATGATGGACGACATCGGCATAGACTCTTCAGAC
I K R E D E T I E D I D M M D D I G I D S S D

3451 CTGGTGAAGACAGCTTCCTGTAAGTGGCGGATTCGAGGGGTTCTTCCACTTCTGGGGCCACCTCTGG
L V E D S F L

1089

3520 ATCCCGTTTCAGAAAACCACTTTATTGCAATGCGGAGGTTGAGAGGAGGACTTGGTTGATGTTTAAAGAG
3589 AAGTTCCAGCCAAGGGCCTCGGGGAGCGTTCTAAATATGAATGAATGGGATATTTTGAAATGAACCTT
3658 GTCAGTGTTGCCTCTTGCAATGCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAGATAGATGGATA
3727 AGGGAATAATAGGCCACAGAAGGTGAACCTTTGTGCTTCAAGGACATTGGTGAGAGTCCAACAGACACAA
3796 TTTATACTGCGACAGAACTTCAGCATTGTAATTATGTAAATAACTCTAACCAAGGCTGTGTTTAGATTG
3865 TATTAAGTATCTTCTTTGGACTTCTGAAGAGACCACTCAATCCATCCTGTACTTCCCTCTTGAACCTG
3934 ATGTAGCTGCTGTTGAACCTTTTTAAAGAAGTGCATGAAAAACCATTTTTGAACCTTAAAAGGTAAGTGGT
4003 ACTATAGCATTTTGTCTATCTTTTTTAGTGTTAAAGAGATAAAGAATAATAAG



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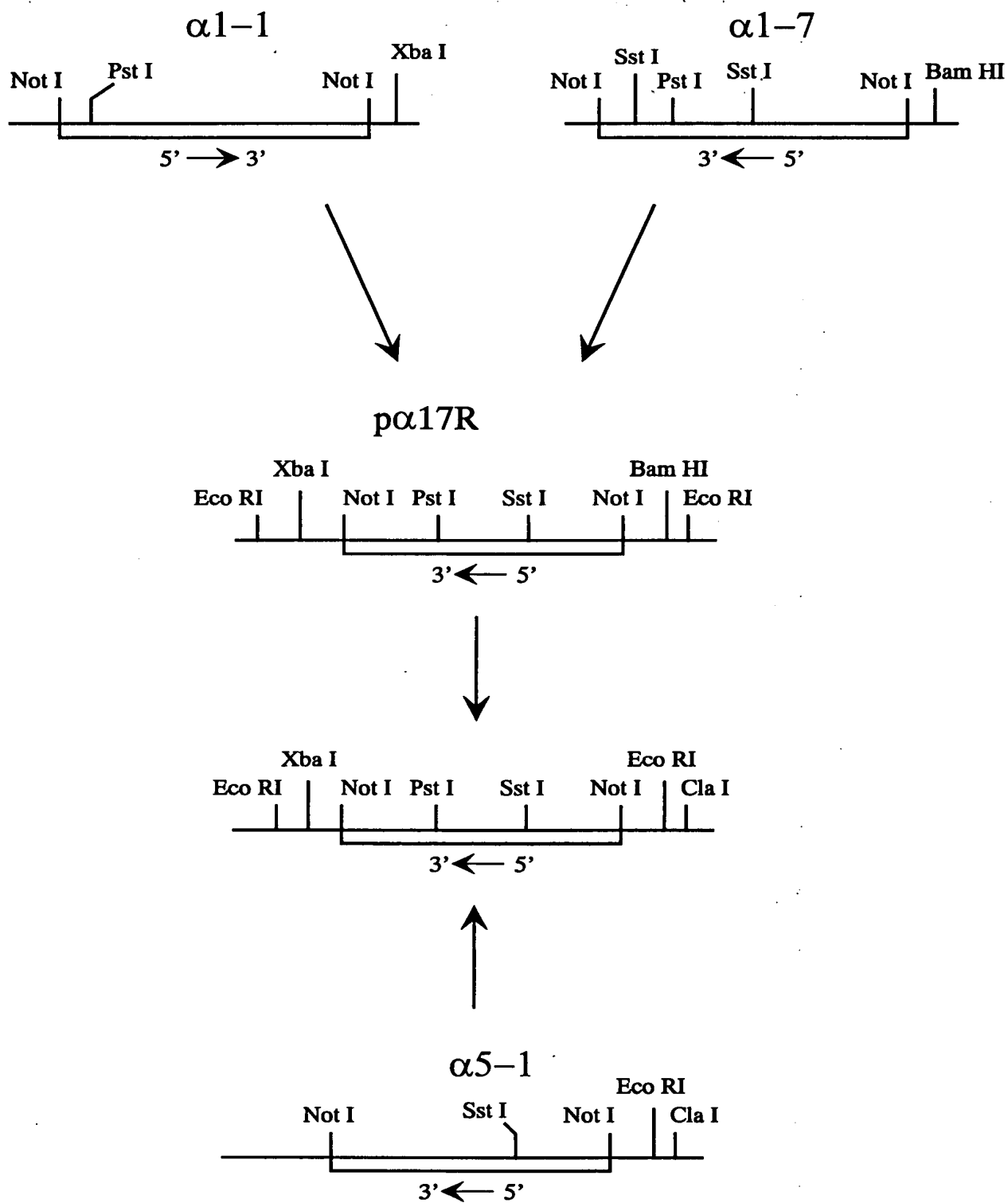


Figure 12



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